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Parass of the state of the stat	FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 32575 3218
APPLICATION NO. FILING DATE 09/645,225 08/24/2000 116 7590 08/07/2003 PEARNE & GORDON LLP 526 SUPERIOR AVENUE EAST SUITE 1200 CLEVELAND, OH 44114-1484	Peter W. Brown EXAMINER ROY, SIKHA ART UNIT PAPER NUMBER 2879 DATE MAILED: 08/07/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	H
. .	Office Action Summary	09/645,225	BROWN ET AL.	
		Examiner	Art Unit	
	The MAILING DATE of this commu	Sikha Roy		
	The MAILING DATE of this commun for Reply	ication appears on the cover s	heet with the correspondence addi	
- If the	HORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNITIES (Including the provisions of time may be available under the provisions or SIX (6) MONTHS from the mailing date of this common period for reply specified above is less than thirty (30 Operiod for reply is specified above, the maximum stature to reply within the set or extended period for reply is reply received by the Office later than three months after patent term adjustment. See 37 CFR 1.704(b).	FOR REPLY IS SET TO EXPIRITED IN TO EXPIRITED	RE 3 MONTH(S) FROM r, may a reply be timely filed	
1) 🖂	`,		oron is unless med, may reduce any	
2a)⊠	Responsive to communication(s) file This action is FINAL .			
3)	Since this application is in a sure	2b) This action is non-final.		
Disposition	closed in accordance with the practic on of Claims	for allowance except for forma ce under <i>Ex parte Quayle</i> , 193		ıerits is
4)⊠ (Claim(s) <u>1-24,26-30 and</u> 32-38 is/are	P nending in the	7, 100 0.0. 213,	
	is/are	Withdrawn for		
• —	1 0 driu 9-17, 19 Is/are allowed	ad he	1.	
0)[X]	Claim(s) <u>21-24,26-30 and</u> 32-38 is/are	U.		
'/23' (Claim(s) 7,8,18,20 is/are objected to			
8)∐ C Application	Claim(s) are subject to rectiful	on and/or election requirement		
	he specification is objected to by the Ex		•	
10) Th	ie drawing(s) filed on is/org. s	xaminer.		
,	ne drawing(s) filed on is/are: a)[Applicant may not request that any objective	☐ accepted or b)☐ objected to h	by the Examiner.	
11) The	Applicant may not request that any objection of the proposed drawing correction filed on	on to the drawing(s) be held in at	Deyance. See 37 CFR 1.85(a).	
lf	If approved, corrected drawings are required	approved b)	disapproved by the Examiner.	
12) The	e oath or declaration is objected to by	ed in reply to this Office action.	Ty me manning,	
	der 35 U.S.C. §§ 119 and 120	the Examiner.		
13) Ac	:knowledament is made of a claim for			
a) <u></u>	cknowledgment is made of a claim for f	foreign priority under 35 U.S.C	C. § 119(a)-(d) or (f)	
			(a) or (i).	
2.[Certified copies of the priority docu	uments have been received.		
_	- The Diolity docin	Imonto have I	Application No.	
* See ti	application from the Internationathe attached detailed Office action for	nal Bureau (PCT Rule 17.2(a)).	en received in this National Stage	
4)□ Ackno	owledgment is made of a claim for don	a list of the certified copies not	ot received.	
a) 🔲 :	The translation of the factor	mestic priority under 35 U.S.C.	S. § 119(e) (to a provisional and)	tion)
5) Ackno	The translation of the foreign language owledgment is made of a claim for don	e provisional application has b	Deen received.	lion).
cnment(s)		mestic priority under 35 U.S.C.	. §§ 120 and/or 121.	
Notice of Re	eferences Cited (PTO-892)	۸□		
1	disperson's Patent Drawing D.	" interview :	Summary (PTO-413) Donor N.	
Information :	Disclosure Statement(s) (PTO-1449) Paper No	5) Notice of I	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)	

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DETAILED ACTION

The Amendment, filed on May 19, 2003 has been entered and overcomes the rejection of claims 1,2,9-11 and 12,13,15,16 under 35 U.S.C. § 102(b), and claims 3-6,17 and 14,19 under 35 U.S.C. § 103(a).

Cancellation of claims 25,31 has been entered.

Specification

The disclosure is objected to because of the following informalities:

The disclosure in page 5 lines 24-26, reciting 'optionally, the total number of layers will be less than 100,110,120,130,150, or 200' is ambiguous. It is not clear whether the total number of layers without suffering mechanical failure due to tensile stresses in the optical interference coating will be less than 100 or 200 and hence the maximum number of layers in the coating without being susceptible to tensile stress is not clearly ascertained.

Appropriate correction is required.

Claim Objections

Claim 8 recites exactly the same limitation as of claim 1 and hence must be cancelled.

Claims 7,18 and 20 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Claims 7,18 and 20 recite the limitation comprising the number of layers greater than 55 while

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depending on claim 1 which recites the number of layers greater than 60 and hence fail to further limit the claim1. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 21-24,26-30,32-38 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Referring to claims 21 and 27, the limitation comprising a ratio of the total thickness of all the layers of high refractive index material to the total thickness of all the layers of low refractive index material greater than 0.76, with total number of layers greater than 51, was not described in the specification. The specification discloses (page 5 lines 18-31) the mechanical stress decreases as the value of r (ratio of the total thickness of all the layers of high refractive index material to the total thickness of all the layers of low refractive index material) increases and for coatings having number of layers greater than 51 and maintaining mechanical integrity the value of r may be at least 0.9.

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Claims 22-24, 26, 33-35 are rejected being dependent on base claim 21.

Claims 28-30,32,36-38 are rejected being dependent on base claim 27.

Allowable Subject Matter

Claims 1-6,9-17 and 12-19 are allowed over the prior art of record.

The following is an examiner's statement of reasons for allowance:

Regarding claims 1 and 12, the references of the Prior Art of record fails to teach or suggest optical interference coating having the combination of the limitations as set forth in claims 1 and 12, and specifically comprising the limitation of total number of layers being greater than 60 and the coating having sufficiently low tensile stress.

Regarding claims 2-6,9-17, claims 2-6,9-17 are allowable for the reasons given in claim 1 because of their dependency status from claim 1.

Claims 13-19 are allowable for the reasons given in claim 12 because of their dependency status from claim 12.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sikha Roy whose telephone number is (703) 308-2826. The examiner can normally be reached on Monday-Friday 8:00 a.m. – 4:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimeshkumar D. Patel can be reached on (703) 305-4794. The fax phone number for the organization is (703) 308-7382.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-

5 R

Sikha Roy Patent Examiner Art Unit 2879

Doseph William AvertWilliam